

# POLAR CADENCE SENSOR POLAR SPEED SENSOR



Model:Y6

User Manual

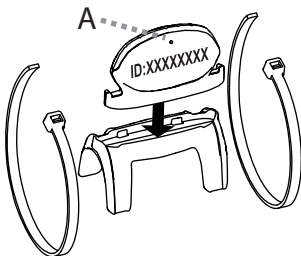
1



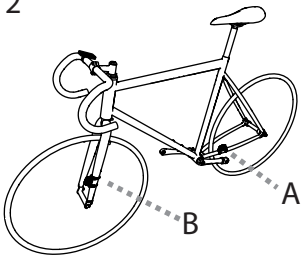
ID: .....



ID: .....



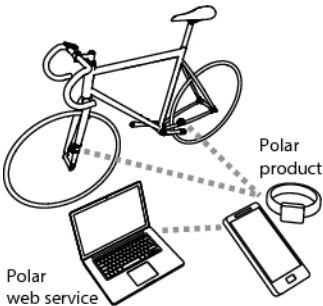
2



# ENGLISH

Polar Cadence Sensor is designed to measure cadence, i.e. crank revolutions per minute, when cycling. Polar Speed Sensor is designed to measure speed and distance when cycling. The sensors are compatible with *Bluetooth*<sup>®</sup> Smart Ready devices that support *Bluetooth*<sup>®</sup> Cycling Speed and Cadence Service.

You can use your sensors with dozens of leading fitness apps as well as with Polar products using *Bluetooth*<sup>®</sup> Smart. Check the compatible products and devices at [www.polar.com/support](http://www.polar.com/support).



Register your Polar product at <http://register.polar.fi> to ensure we can keep improving our products and services to better meet your needs.

The latest version of this user manual can be downloaded at [www.polar.com/support](http://www.polar.com/support).

Please follow the pictures on the front and back covers.



*Write the device ID printed on each sensor in the space on the front cover (picture 1). The original marking may fade as a result of normal wear and tear.*

## **Cadence Sensor Parts**

1. Cadence sensor (pictures 2 A and 3 A)
2. Cadence magnet (picture 3 B)

## **Installing the Cadence Sensor**

For a video tutorial, see Installing Polar Cadence Sensor at [www.polar.com/en/polar\\_community/videos](http://www.polar.com/en/polar_community/videos).

To install the cadence sensor and cadence magnet, you need cutters.

1. Check the chain stay for a suitable place for the cadence sensor (picture 2 A on the front cover). Do not install the sensor on the same side as the chain. The Polar logo on the sensor should be facing away from the crank (picture 3 A on the back cover).
2. Attach the rubber part to the sensor (picture 1 on the front cover).
3. Clean and dry a suitable place for the sensor and place the sensor on the chain stay (picture 3 A on the back cover). If the sensor touches the rotating crank, tilt the sensor slightly away from the crank. Pass the cable ties over the sensor and rubber part. Do not tighten them fully yet.

4. Place the cadence magnet vertically on the inner side of the crank (picture 3 B on the back cover). Before attaching the magnet, clean and dry the area thoroughly. Attach the magnet to the crank and secure with tape.
5. Fine-tune the positioning of the sensor so that the magnet passes close to the sensor without actually touching it (picture 3 on the back cover). Tilt the sensor towards the magnet so that the gap between the sensor and the magnet is under 4 mm/0.16". The gap is correct when you can fit a cable tie between the magnet and the sensor. There is a small caved dot on the backside of the sensor (picture 1 A on the front cover), which indicates the spot the magnet should be pointing at when passing the sensor.
6. Rotate the crank to test the cadence sensor. The flashing red light on the sensor indicates that the magnet and the sensor are positioned correctly. If you keep rotating the crank, the light will stop flashing. Tighten the cable ties securely and cut off any excess cable tie ends.

## **Speed Sensor Parts**

1. Speed sensor (pictures 2 B and 4 A)
2. Spoke magnet (picture 4 B)

## **Installing the Speed Sensor**

For a video tutorial, see Installing Polar Speed Sensor at [www.polar.com/en/polar\\_community/videos](http://www.polar.com/en/polar_community/videos).

To install the speed sensor and spoke magnet, you need cutters and a cross-head screwdriver.

1. It is recommended to install the speed sensor on the front fork of your bicycle (as in picture 2 B on the front cover).
2. Attach the rubber part to the speed sensor (picture 1 on the front cover).
3. Pass the cable ties over the speed sensor and rubber part (picture 4 A on the back cover). Adjust the sensor to the front fork so that the POLAR logo faces outwards. Adjust the ties loosely. Do not tighten them fully yet.

4. Attach the magnet to a spoke at the same level as the speed sensor (picture 4 on the back cover). There is a small caved dot on the backside of the sensor (picture 1 A on the front cover), which indicates the spot the magnet should be pointing at when passing the sensor. Fasten the magnet to the spoke and tighten it lightly with a screwdriver. Do not tighten it fully yet.
5. Fine-tune the positioning of both the magnet and the speed sensor so that the magnet passes close to the sensor but does not touch it (picture 4 on the back cover). Move the sensor towards the wheel/spokes as close as possible. The gap between the sensor and the magnet should be under 4 mm/0.16". The gap is correct when you can fit a cable tie between the magnet and the sensor.
6. Rotate the front tire to test the speed sensor. The flashing red light on the sensor indicates that the magnet and the sensor are positioned correctly. If you keep rotating the tire, the light will stop flashing. Tighten the screw to the magnet with a screwdriver. Also tighten the cable ties securely and cut off any excess cable tie ends.



*Before you start cycling, set the wheel size of your bicycle into the receiving device or mobile application.*



## Pairing

Your new sensors must be paired with the receiving device in order to receive data. For more information, see the user guidance material of the receiving device or mobile application.



*To ensure a good connection between the sensors and the receiving device, it is recommended to keep the device in a bike mount on the handlebar.*

## Care and Maintenance

Keep the sensors clean. Clean them with a mild soap and water solution, and rinse off with clean water. Dry carefully with a soft towel. Never use alcohol or any abrasive material, such as steel wool or cleaning chemicals. Do not immerse the sensors in water.

Your safety is important to us. Make sure that you can turn your handlebars normally and that the cable wires for brakes or gears do not catch the bike mount or sensors. Also, make sure that sensors do not disturb pedaling or using the brakes or gears. While riding your bike, keep your eyes on the road to prevent possible accidents and injury. Avoid hard hits as these may damage the sensors.

Replacement magnet sets can be purchased separately.

## Battery

The batteries cannot be replaced. The sensors are sealed in order to maximize mechanical longevity and reliability. To purchase a new sensor, contact your authorized Polar Service or retailer. You can also purchase sensors online. Go to [www.polar.com](http://www.polar.com) to find your own country's shoppolar online store.

The battery level of your sensors is displayed on the receiving device if it supports *Bluetooth*® Battery Service.

To increase battery life, the sensors go into standby mode in thirty minutes if you stop cycling and the magnets are not passing the sensors.

## Frequently Asked Questions

What should I do if...

...the cadence/speed reading is 0 or there is no cadence/speed reading while cycling?

- Make sure the position and distance of the sensor to the magnet are appropriate.
- Check that you have activated the cadence/speed function in the receiving device. For further information, see the user guidance material of the receiving device or mobile application.
- Try keeping the receiving device in a bike mount on the handlebar. This may improve the connection.
- If the 0 reading appears irregularly, this may be due to temporary electromagnetic interference in your current surroundings.
- If the 0 reading is constant, the battery may be empty.

...there are irregular cadence, speed, distance or heart rate readings?

- Disturbance may occur near microwave ovens and computers. Also WLAN base stations may cause interference when training with Polar Cadence Sensor and Polar Speed Sensor. To avoid erratic reading or misbehaviors, move away from possible sources of disturbance.

... I want to pair the sensor with the receiving device before installation?

- Follow the instructions in the user guidance material of the receiving device or mobile application. Instead of rotating the crank/wheel, activate the sensor by moving it back and forth close to the magnet. The flashing red light indicates that the sensor is activated.

How do I know...

... if the sensor is transmitting data to the receiving device?

- When you begin cycling, a flashing red light indicates that the sensor is alive and it is transmitting cadence/speed signal. As you continue cycling, the light stops flashing.

## Technical Specification

|                        |                                      |
|------------------------|--------------------------------------|
| Operating temperature: | -10 °C to +50 °C / +14 °F to +122 °F |
| Battery life:          | Average 1400 hours of use            |
| Accuracy:              | ±1 %                                 |
| Material:              | Thermoplastic polymer                |
| Water resistance:      | Splash proof                         |

**FCC ID: INWY6**

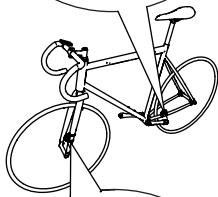
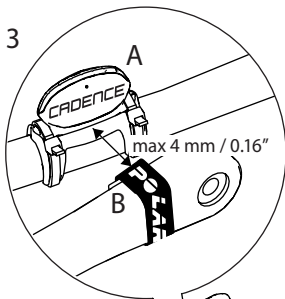
**Cadence Sensor Bluetooth QD ID: B021137**

**Speed Sensor Bluetooth QD ID: B021136**

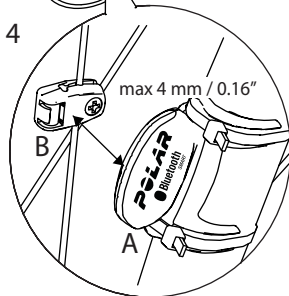
Copyright © 2014 Polar Electro Oy, FI-90440  
KEMPELE.

All rights reserved. No part of this manual may be used or reproduced in any form or by any means without prior written permission of Polar Electro Oy. The names and logos marked with a <sup>™</sup> symbol in this user manual or in the package of this product are trademarks of Polar Electro Oy. The names and logos marked with a ® symbol in this user's manual or in the package of this product are registered trademarks of Polar Electro Oy. The *Bluetooth*<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Polar Electro Oy is under license.

3



4



Manufactured by

Polar Electro Oy  
Professorintie 5  
FIN-90440 KEMPELE  
Tel +358 8 5202 100  
Fax +358 8 5202 300  
[www.polar.com](http://www.polar.com)

**POLAR**<sup>®</sup>  
LISTENS TO YOUR BODY